

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P636931

Luminaire Tested: **IFLD-L-SA7A-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636931
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15318.3 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

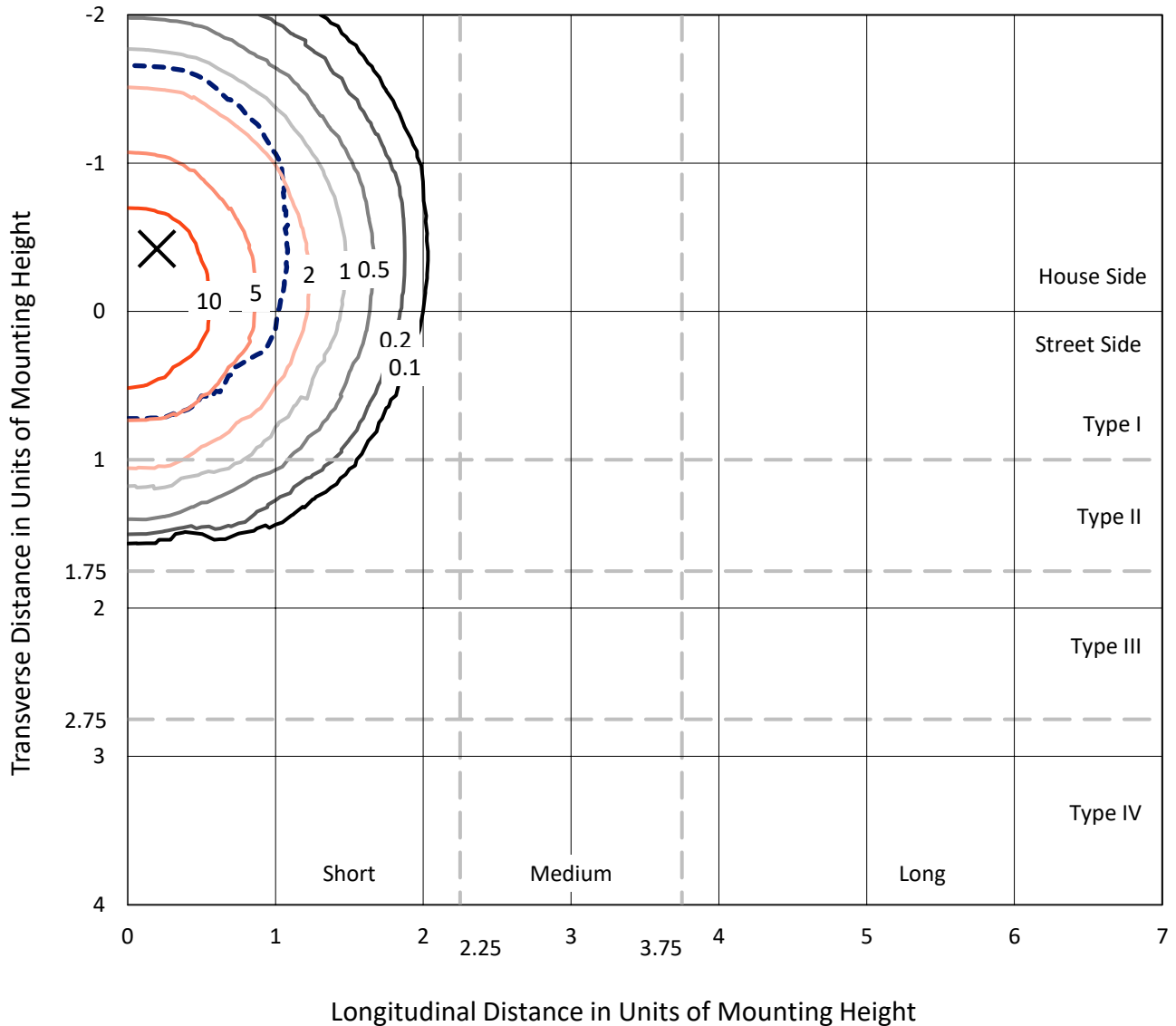
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

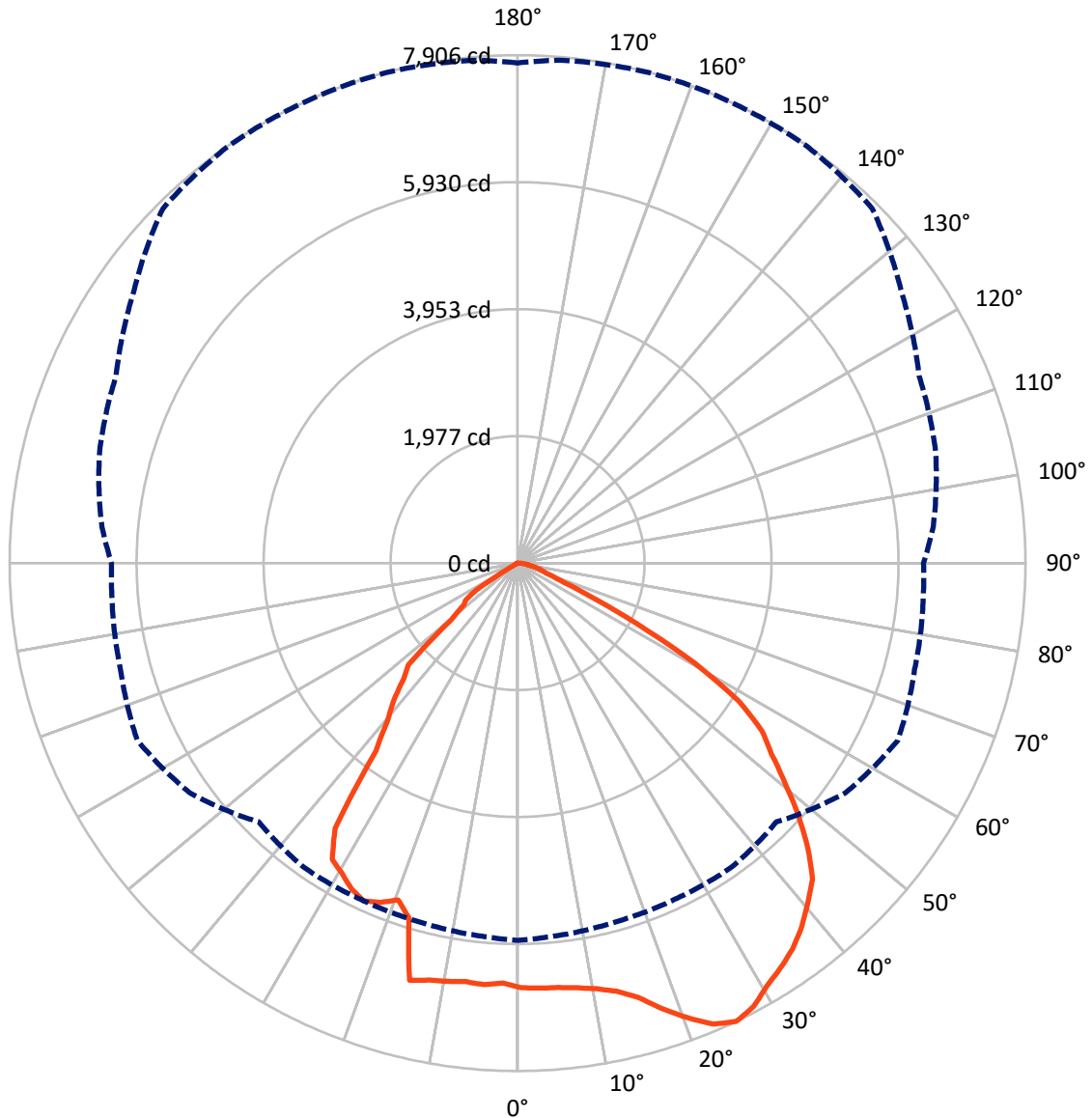
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 16.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9483.6	0.0	9483.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5834.7	0.0	5834.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	15318.3	0.0	15318.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	634.1	4.1
10°-20°	1936.2	12.6
20°-30°	3061.0	20.0
30°-40°	3457.7	22.6
40°-50°	3238.2	21.1
50°-60°	2232.5	14.6
60°-70°	599.8	3.9
70°-80°	125.0	0.8
80°-90°	33.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	15318.3	100.0
0°-180°	15318.3	100.0



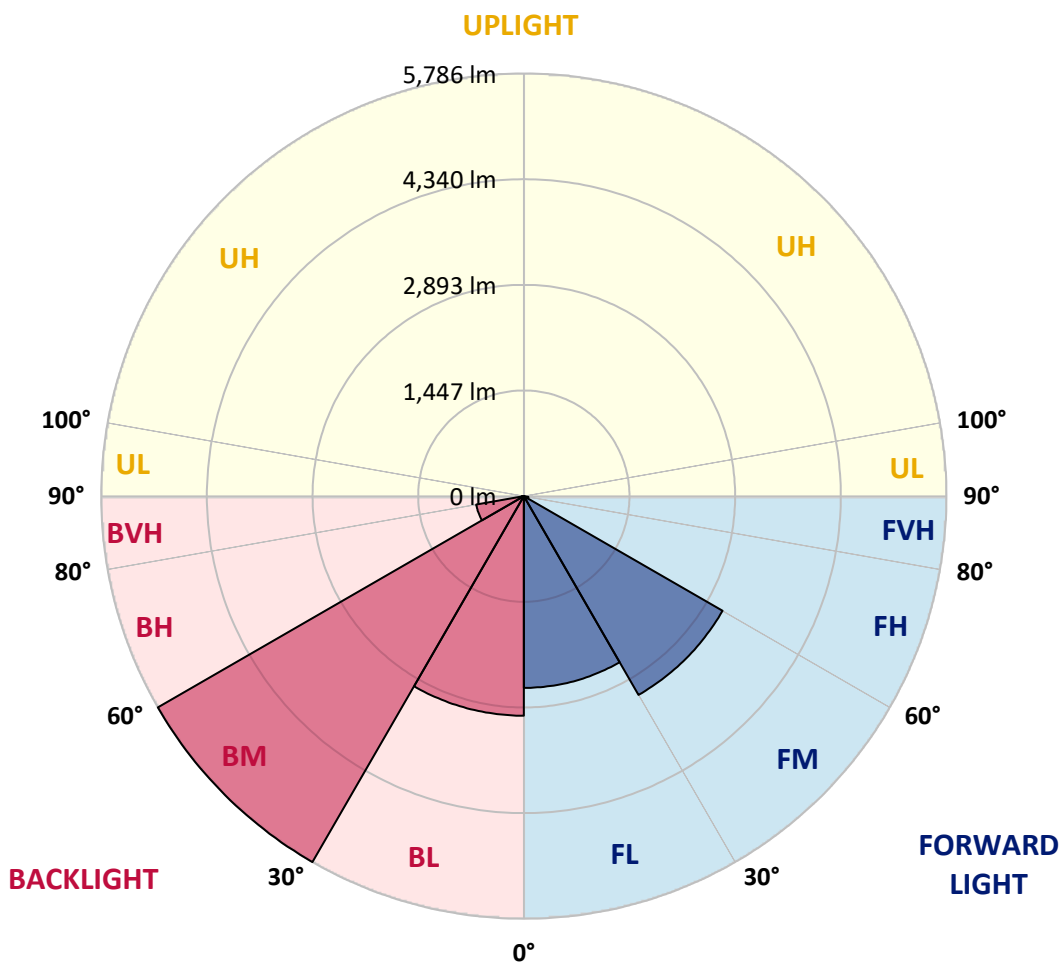
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2625.1	17.1			
FM (30°-60°)	3142.1	20.5			
FH (60°-80°)	63.0	0.4			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	3006.2	19.6	B4/5000		
BM (30°-60°)	5786.2	37.8	B4/8500		
BH (60°-80°)	661.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	29.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6609.5	6609.5	6609.5	6609.5	6609.5	6609.5	6609.5	6609.5	6609.5	6609.5
2.5°	6638.8	6596.0	6555.5	6542.0	6598.3	6659.1	6620.8	6623.1	6609.5	6634.3
5°	6688.3	6629.8	6602.8	6582.5	6591.5	6654.6	6600.5	6620.8	6598.3	6627.6
7.5°	6670.3	6629.8	6602.8	6564.5	6593.8	6668.1	6616.3	6618.6	6607.3	6634.3
10°	6659.1	6629.8	6596.0	6600.5	6634.3	6697.3	6656.8	6679.3	6663.6	6679.3
12.5°	6686.1	6654.6	6636.6	6636.6	6665.8	6737.9	6717.6	6737.9	6731.1	6744.6
15°	6431.7	6461.0	6632.1	6708.6	6767.1	6839.2	6830.2	6850.4	6854.9	6875.2
17.5°	5425.4	5396.1	5382.6	5776.6	6823.4	7046.3	7039.5	7037.3	7014.8	6999.0
20°	5558.2	5547.0	5531.2	5560.5	5677.5	7154.3	7199.4	6922.5	6841.4	6834.7
22.5°	5769.8	5751.8	5693.3	5695.6	5731.6	6220.1	6976.5	6724.4	6697.3	6681.6
25°	5873.4	5837.4	5790.1	5776.6	5787.9	5697.8	6231.3	6530.8	6397.9	6337.1
27.5°	5691.1	5693.3	5655.0	5691.1	5648.3	5243.1	5015.7	6152.6	6148.0	6121.0
30°	5553.7	5547.0	5502.0	5547.0	5252.1	4799.6	4702.8	5738.3	5691.1	5655.0
32.5°	5132.8	5137.3	5267.8	5443.4	4959.4	4601.5	4308.8	5126.0	5574.0	5553.7
35°	3671.7	3680.7	4144.5	5011.2	4515.9	4207.5	4185.0	4430.4	5389.4	5398.4
37.5°	3534.4	3534.4	3523.1	3665.0	4167.0	4047.7	4092.7	4067.9	4936.9	4959.4
40°	3435.3	3415.1	3399.3	3176.5	2897.3	3935.1	3966.6	3854.1	4666.8	4671.3
42.5°	3316.0	3293.5	3298.0	2886.0	2593.4	3656.0	3568.2	3417.3	4216.5	4221.0
45°	3097.7	3135.9	3162.9	2525.9	2503.3	2611.4	3291.3	3196.7	3912.6	3995.9
47.5°	1575.8	1609.6	2469.6	2323.2	2375.0	2321.0	2780.2	2782.5	3255.2	3532.1
50°	1429.5	1420.5	1422.8	1355.2	2192.7	1877.5	2010.3	2550.6	2606.9	3003.1
52.5°	1332.7	1330.5	1193.1	1060.3	1377.7	1652.4	1458.8	1846.0	1938.3	2543.9
55°	986.0	1058.1	941.0	997.3	862.2	1323.7	1317.0	1665.9	1697.4	2039.6
57.5°	9.0	11.3	27.0	758.7	596.6	661.9	909.5	1136.9	1193.1	1589.4
60°	2.3	4.5	11.3	22.5	387.2	407.5	607.8	657.4	740.6	947.8
62.5°	0.0	0.0	4.5	11.3	20.3	166.6	193.6	211.6	326.4	484.0
65°	0.0	0.0	2.3	6.8	11.3	27.0	47.3	99.1	141.8	175.6
67.5°	0.0	0.0	2.3	4.5	9.0	13.5	27.0	38.3	60.8	103.6
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.0	27.0	36.0	51.8
72.5°	0.0	0.0	2.3	4.5	4.5	13.5	13.5	20.3	27.0	33.8
75°	0.0	0.0	2.3	2.3	4.5	9.0	13.5	15.8	18.0	27.0
77.5°	0.0	0.0	2.3	4.5	6.8	9.0	11.3	18.0	15.8	15.8
80°	0.0	0.0	2.3	6.8	6.8	11.3	13.5	18.0	11.3	11.3
82.5°	0.0	0.0	2.3	9.0	6.8	22.5	22.5	24.8	9.0	9.0
85°	0.0	0.0	6.8	4.5	13.5	22.5	20.3	13.5	11.3	6.8
87.5°	0.0	0.0	2.3	2.3	4.5	6.8	15.8	13.5	4.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6609.5	0°	6609.5	6609.5	6609.5	6609.5	6609.5	6609.5	6609.5	6609.5	6609.5
6569.0	2.5°	6659.1	6629.8	6690.6	6683.8	6654.6	6641.1	6625.3	6611.8	6512.7
6573.5	5°	6661.3	6616.3	6690.6	6677.1	6672.6	6650.1	6636.6	6656.8	6566.8
6591.5	7.5°	6661.3	6616.3	6697.3	6701.8	6695.1	6677.1	6674.8	6688.3	6614.0
6623.1	10°	6706.3	6688.3	6755.9	6762.6	6753.6	6749.1	6737.9	6728.9	6650.1
6731.1	12.5°	6800.9	6764.9	6841.4	6861.7	6854.9	6866.2	6839.2	6852.7	6771.6
6841.4	15°	6915.7	6918.0	6976.5	7021.5	7017.0	7053.0	7012.5	7048.5	6990.0
6967.5	17.5°	7091.3	7116.1	7199.4	7266.9	7291.7	7318.7	7291.7	7302.9	7219.6
6827.9	20°	6906.7	6999.0	7399.7	7523.5	7575.3	7600.1	7555.1	7568.6	7485.3
6656.8	22.5°	6740.1	6859.4	7215.1	7602.3	7762.2	7811.7	7795.9	7793.7	7762.2
6319.1	25°	6494.7	6735.6	6895.4	7305.2	7807.2	7897.2	7906.2	7904.0	7856.7
6112.0	27.5°	6193.1	6247.1	6661.3	6911.2	7492.0	7834.2	7820.7	7755.4	7692.4
5682.0	30°	5808.1	6053.5	6240.3	6638.8	7084.6	7640.6	7640.6	7591.1	7525.8
5529.0	32.5°	5612.3	5929.7	6103.0	6247.1	6627.6	7424.5	7514.5	7462.8	7411.0
5409.7	35°	5508.7	5556.0	5961.2	6091.8	6413.7	7008.0	7372.7	7320.9	7282.7
5092.2	37.5°	5281.3	5391.6	5580.7	5929.7	6028.7	6668.1	7183.6	7156.6	7111.6
4680.3	40°	4774.8	5069.7	5360.1	5691.1	5794.6	6231.3	6954.0	6965.2	6904.5
4241.3	42.5°	4475.4	4675.8	5130.5	5353.4	5632.5	5949.9	6731.1	6749.1	6706.3
4018.4	45°	4124.2	4347.1	4666.8	5072.0	5452.4	5562.7	6337.1	6526.3	6490.2
3574.9	47.5°	3802.3	3982.4	4374.1	4783.8	5204.8	5189.0	5884.7	6240.3	6190.8
3235.0	50°	3345.3	3660.5	3845.1	4221.0	4849.1	4891.9	5402.9	5904.9	5864.4
2748.7	52.5°	2820.8	3217.0	3570.4	3914.8	4488.9	4590.2	4954.9	5562.7	5535.7
2100.4	55°	2465.1	2753.2	3151.7	3428.6	4052.2	4322.3	4619.5	5236.3	5222.8
1726.7	57.5°	1753.7	2309.7	2638.4	3025.6	3354.3	3842.8	4063.4	4572.2	4446.1
956.8	60°	1188.6	1449.8	1850.5	2267.0	2487.6	2976.1	3181.0	3588.4	3554.7
571.8	62.5°	628.1	869.0	1154.9	1364.2	1524.1	1999.1	2084.6	2523.6	2512.3
229.6	65°	276.9	366.9	625.8	733.9	898.2	1118.9	1193.1	1350.7	1312.5
112.6	67.5°	144.1	218.4	353.4	434.5	547.0	630.3	691.1	740.6	772.2
74.3	70°	87.8	159.8	218.4	301.7	376.0	443.5	490.8	558.3	598.8
38.3	72.5°	65.3	101.3	150.8	231.9	272.4	351.2	398.5	448.0	484.0
31.5	75°	36.0	67.5	121.6	182.3	218.4	285.9	328.7	362.4	373.7
18.0	77.5°	22.5	51.8	101.3	141.8	171.1	231.9	220.6	252.1	279.1
13.5	80°	15.8	38.3	78.8	117.1	119.3	148.6	175.6	202.6	220.6
9.0	82.5°	11.3	31.5	58.5	90.0	78.8	114.8	137.3	157.6	114.8
6.8	85°	9.0	22.5	29.3	54.0	45.0	81.0	69.8	67.5	45.0
4.5	87.5°	6.8	11.3	20.3	24.8	18.0	18.0	22.5	27.0	22.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6609.5
6445.2
6490.2
6528.5
6584.8
6699.6
6893.2
7147.6
7426.7
7660.9
7784.7
7642.8
7501.0
7368.2
7228.6
7066.5
6890.9
6701.8
6494.7
6226.8
5871.1
5553.7
5238.6
4432.6
3556.9
2514.6
1296.7
772.2
601.1
490.8
366.9
283.7
222.9
83.3
45.0
22.5
0.0

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